

Replacement Paragraph 0016

As ~~shows~~ shown in Fig. 2, the projections 18 on the stay sidewalls 14, 15 of the stator stays 3 are arranged such that their spacing relative to the radial outer limiting wall 19 of the grooves 17 is smaller than their spacing relative to the radial inner limiting wall 20. The end face 21 of the projections 18 that are rectangular in cross-section has a spacing from the bottom 22 of the grooves 17. In the remaining area, the vane sidewalls 12, 13 of the rotor vanes 7 have a spacing from the neighboring stay sidewalls 14, 15 of the stator stays 3, respectively. The gap 23 that is thus formed across the radial length of the rotor vanes 7 and the stator stays 3 provides the end position damping action of the camshaft adjuster. When the rotor 6 is rotated such that it approaches with the corresponding vane sidewall 12 or 13 of its vanes 7 the corresponding stay sidewalls 14, 15 of the stator stays 3, the pressure medium contained in the pressure chamber 10 or 11, depending on the rotational direction of the rotor 6, is displaced. As soon as the projections 18 of the stator stays 3 engage the grooves 17 of the rotor vanes 7, damping of the rotational movement of the rotor 6 as a result of the damping gap 23 occurs. In this way, the kinetic energy of the rotor 6 is reduced so that it moves slowly into its end position.